PC Accessories

GFM 1501
GFC 1508B

Rack-Mount FoldAways™ with 15" LCD Monitor, Keyboard & Trackball

GFM 1501: Monitor, Keyboard & Trackball

GFC 1508B: Monitor, Keyboard, Trackball & 8-Port KVM Switch

USER'S MANUAL

VER. 1.1C • JAN 2008

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January 22, 2008

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GFM 1501 & GFC 1508B		
Revision #	**Description**	**Date of Issue**
1.0	Initial Release	July 2007
1.1C	Revision	January 22nd 2008

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Introduction

Congratulations! You've chosen the efficient GFC 1508B or GFM 1501 high-performance Foldaway, which will save you money, time, space, equipment and power. These Foldaways fit into 1U of rack mount space, feature a 1024 x 768 LCD screen, durable construction and advanced On Screen Display Menus.

How to Read this Manual

The GFC 1508B and the GFM 1501 are from the same family of displays – in fact, they're identical in size, performance and specification with the exception of the GFC 1508B's built-in 8-port KVM. They are so similar, this manual represents both models. Please keep in mind as you read on, "GFC 1508B," refers to both models from this point forward unless mentioned within the context of, or relating to KVM functionality. Similarly, as you reach the Specifications section, please note that detail regarding KVM ports and KVM connections do not apply to the GFM 1501 - to simplify this task, each model has it's own set of data within this section.

Features

- 8 port GFC 1508B fits into 19" racks
- Support Microsoft Intellimouse, Microsoft Intellimouse Explorer, Logitech Net Mouse or the other fully compatible MS mouse.
- Provide Console PS/2 to PC serial mouse conversion
- Support DOS, Win3.X, Win95/98/98SE/2000/ME/XP, WinNT, Netware, SCO Unix, HP Unix, Linux
- Hot Plug - Add PCs or Remove Connected PCs for Maintenance without Powering Down the GFC 1508B or PCs.
- Very High Video Quality - Up To 1024 x 768, Scanning Frequency: 60Hz....75Hz
- No Software Required - easy PC selection via On Screen Display Menu, Push Buttons, Hot Keys
- Support eight-character password protection and search PC server name
- Auto Scan Mode for monitoring PCs and flexible Scan time from 5~99 seconds
- Keyboard status restored when switching PCs
- LED Display for easy status monitoring
- Buzzer sound for switching port confirmation.
- Standard Keyboard, VGA and Mouse cable.
- No DIP switch setting needed/auto-detect

Specifications - GFC 1508B

Case / Mounting Frame		
Mounting Configuration		Rack-mount (EIA RS-310C Standard 19")
Height, Rack Units		1U (1.75")
Mounting Flanges		Built in (integral)
Integral Mechanical KeyLock		Built-in lock with 2 keys (integral)
Chassis Material		Heavy-duty steel chassis
Front Panel Material		Steel
Primary Case Color		Black
Front Panel Color		Black
Display		
Display Type		LCD flat panel
Video Input Types		Standard analog VGA (15-pin)
Screen Size (viewable area, diagonal)		15"
Display Brightness		250 nits (High-Bright)
Resolution, maximum		1024 x 768 pixels
Display Special Features		Front-panel controls include: • Increase/decrease • OSD menu • Auto adjustment • Display On/Off • Power LED
Maximum Number of Colors		16 million colors
Maximum Color Depth in Bits		24-bit color
Contrast Ratio		350:1
Viewing Angle	° Horizontal	120°
	° Vertical	100°
Scanning Frequency	Scanning Frequency, Vertical	60Hz....75Hz
Dot Pitch		0.30mm
Keyboard		
Case/Mounting Frame	Keyboard Form Factor	Standard keyboard
	Construction - Chassis Material	Heavy-duty steel chassis
	Protection Rating	NEMA 1
	Built-In Keyboard Wrist Rest	Front of keyboard provides a wrist rest on either side of the trackball
Keys	Total Number of Keys	105 keys
	Number of Data Entry Keys	93 keys
	Number of Function Keys	12 keys
	Keycap Color	Grey
	Key Feedback	Full-travel (standard touch-typing)
	Key Travel	0.17" (4.4mm)
	Construction - Keycap Material	Plastic
Pointing Device		
Pointing Device Type		Trackball
Interface Signals Supported		PS/2 mouse
Tracking Technology		Mechanical (ball-and-encoder type)
Pointing Device Buttons		3 buttons
Button Material		Plastic
Pointing Device OS Support		Windows 98
KVM Switches		
KVM User x System Configuration		1 x 8
Number of PCs per KVM Switch		8 PCs

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Cables & Connectors		
Video/KVM Connectors and Cables	Number of Connectors	9
	Connector Type	HD-15 (VGA standard)
	Connector Gender	Female (socket)
	Connector Details	KVM set connector on KVM side is special 15-pin connector that incorporates the keyboard and mouse signals. There is only 1 connector per channel on the KVM side.
	Cabling Details	Using a GFA 16CBLxx cable, on the PC side there is a regular complement of VGA, mouse, and keyboard male connectors
Keyboard Connector and Cables	Keyboard Connector Compatibility (with included adapters)	PS/2 (6-pin)
Pointing Device Connector and Cables	Pointing Device Connector Compatibility (with included adapters)	PS/2 (6-pin)
Power Connector and Cables	Chassis Power Input Connector	NEMA standard male PC cord socket
Indicators, Switches, & Controls		
On Screen Display (OSD) Control Functions		Brightness Contrast RGB color adjustments Horizontal size Vertical size Color temperature adjustment Select language for OSD controls Position of OSD controls Reset to factory defaults Geometry (convex/concave sides) Geometry (parallelogram) Auto adjustment Recall (last OSD setting)
Front Panel Controls	Power On/Off Switch	1 on/off switch
	LCD Display On/Off Switch	Yes - display shuts off when unit is closed
	OSD Controls	OSD controls for menu navigation (4 buttons)
	Brightness	Via OSD controls
	Contrast	Via OSD controls
	Other Controls/Features	KVM control panel and indicator at top of keyboard.
Rear Panel Controls	Power On/Off Switch	1 on/off switch
Indicators	Power On/Off	LED on front panel
	System in Sleep Mode	Shown by change in LED color
	Channel Number	1-character LED display (system number)
	Other Indicators	NUM lock SCROLL lock CAPS lock LED for display power on front panel
Power Consumption		
Power Consumption, Typ.		0.48A typ.
Operating System		
Operating System Supported		Windows XP Windows 2000 Windows 98
Cooling		
Cooling Summary		Convection (runs in silence)
Environmental Specifications		
Operating Temperature		32°F....122°F (0°C....50°C)
Storage Temperature		-4°F....140°F (-20°C....60°C)
Relative Humidity, noncondensing		10%....90%
Safety & Standards Compliance		
Protection Rating		NEMA 1

Dimensions	
Rack Width	EIA RS-310C standard 19 inches at flanges
Height	1.75" (44.45mm)
Height, Rack Units	1U (1.75")
Height, Open (including handle)	13.3" (337.82mm)
Height, Open (not including handle)	12.16" (308.86mm)
Depth (including handles)	1.93ft (589.28mm)
Depth Behind Panel (rack depth)	1.81ft (552.65mm)
Protrusion from Rack When Closed (including handles)	1.26" (31.94mm)
Max. Extension from Rack When Open (including handles)	15.02" (381.59mm)
Rack Depth Range (rear mounting bracket)	1.87ft ....2.96ft (568.96mm....901.7mm)
Dimension Details	Width (between non-removable rack-mounting flanges) 17.313 inches
Shipping Height	7.5" (190.5mm)
Shipping Width	1.96ft (596.9mm)
Weight	
Weight	25.02lbs (11.35kg)

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Specifications - GFM 1501

Case / Mounting Frame		
Mounting Configuration		Rack-mount (EIA RS-310C Standard 19")
Height, Rack Units		1U (1.75")
Mounting Flanges		Built in (integral)
Integral Mechanical KeyLock		Built-in lock with 2 keys (integral)
Chassis Material		Heavy-duty steel chassis
Front Panel Material		Steel
Primary Case Color		Black
Front Panel Color		Black
Display		
Display Type		LCD flat panel
Video Input Types		Standard analog VGA (15-pin)
Screen Size (viewable area, diagonal)		15"
Display Brightness		250 nits (High-Bright)
Resolution, maximum		1024 x 768 pixels
Display Special Features		Display shuts off when closed.
Maximum Number of Colors		16 million colors
Maximum Color Depth in Bits		24-bit color
Contrast Ratio		350:1
Viewing Angle	° Horizontal	120°
	° Vertical	100°
Dot Pitch		0.30mm
Keyboard		
Case/Mounting Frame	Keyboard Form Factor	Standard keyboard
	Construction - Chassis Material	Steel
	Protection Rating	NEMA 1
	Built-In Keyboard Wrist Rest	Front of keyboard provides a wrist rest on either side of the trackball
Keys	Total Number of Keys	105 keys
	Number of Data Entry Keys	93 keys
	Number of Function Keys	12 keys
	Keycap Color	Assorted
	Key Feedback	Full-travel (standard touch-typing)
	Key Travel	0.17" (4.4mm)
	Construction - Keycap Material	Plastic
Pointing Device		
Pointing Device Type		Trackball
Interface Signals Supported		PS/2 mouse
Tracking Technology		Mechanical (ball-and-encoder type)
Pointing Device Buttons		3 buttons
Button Material		Plastic
Pointing Device OS Support		Windows XP
Cables & Connectors		
Video/KVM Connectors and Cables	Number of Connectors	1
	Connector Type	HD-15 (VGA standard)
	Connector Gender	Female
	Video/KVM Cable Length	6 feet
	Video Output Connector	HD15 (standard VGA) connector
Keyboard Connector and Cables	Keyboard Connector Compatibility (with included adapters)	PS/2 (6-pin)
	Keyboard Cable Connector	1xPS/2 (6-pin mini-DIN female)
	Keyboard Cable Length	5.96ft (1.82m)
Pointing Device Connector and Cables	Pointing Device Connector Compatibility (with included adapters)	PS/2 (6-pin)
	Pointing Device Cable Connector	2xPS/2 (6-pin mini-DIN female)

	Pointing Device Cable Length	5.96ft (1.82m)
Power Connector and Cables	Chassis Power Input Connector	NEMA standard male PC cord socket
	Cable from Power Supply to Display (length)	6ft (1.83m)
Indicators, Switches, & Controls		
On Screen Display (OSD) Control Functions		Brightness Contrast RGB color adjustments Horizontal position Horizontal size Vertical size Color temperature adjustment Select language for OSD controls Position of OSD controls Reset to factory defaults Phase adjustment Auto adjustment Recall (last OSD setting)
Front Panel Controls	Power On/Off Switch	1 on/off switch
	OSD Controls	OSD controls for menu navigation (3 buttons)
	Brightness	Via OSD controls
	Contrast	Via OSD controls
	Other Controls/Features	Display shuts off when closed. Amber LED, unit is in Sleep Mode Red LED, an error condition, for example, frequency out of range.
Rear Panel Controls	Power On/Off Switch	1 on/off switch
Indicators	Power On/Off	LED indicates power on
	System in Sleep Mode	Shown by change in LED color
	Other Indicators	NUM lock SCROLL lock CAPS lock
Power Consumption		
Power Consumption, Typ.		Under 1A active, 7mA in power-saving mode
Environmental Specifications		
Operating Temperature		32°F....122°F (0°C....50°C)
Storage Temperature		-4°F....140°F (-20°C....60°C)
Relative Humidity, noncondensing		10%....90%
Safety & Standards Compliance		
Safety/Approvals		Meets CE standards
Safety/Approvals, Power Supply		Meets CE standards Meets TUV standards Meets FCC Part 15 - Class B EMI specs Meets UL 1950 standards
Protection Rating		NEMA 1
Dimensions		
Rack Width		EIA RS-310C standard 19 inches at flanges
Width (without removable flanges)		17.58" (446.43mm)
Height		1.77" (45.06mm)
Height, Rack Units		1U (1.75")
Height, Open (including handle)		13.26" (336.83mm)
Height, Open (not including handle)		12.12" (307.81mm)
Depth (including handles)		1.68ft (512.38mm)
Depth Behind Panel (rack depth)		19.22" (488.22mm)
Protrusion from Rack When Closed (including handles)		1.23" (31.16mm)
Max. Extension from Rack When Open (including handles)		14.58" (370.23mm)
Rack Depth Range (rear mounting bracket)		1.69ft ....2.95ft (515.11mm....898.52mm)
Weight		
Weight		21.28lbs (9.65kg)

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ACCESSORIES:

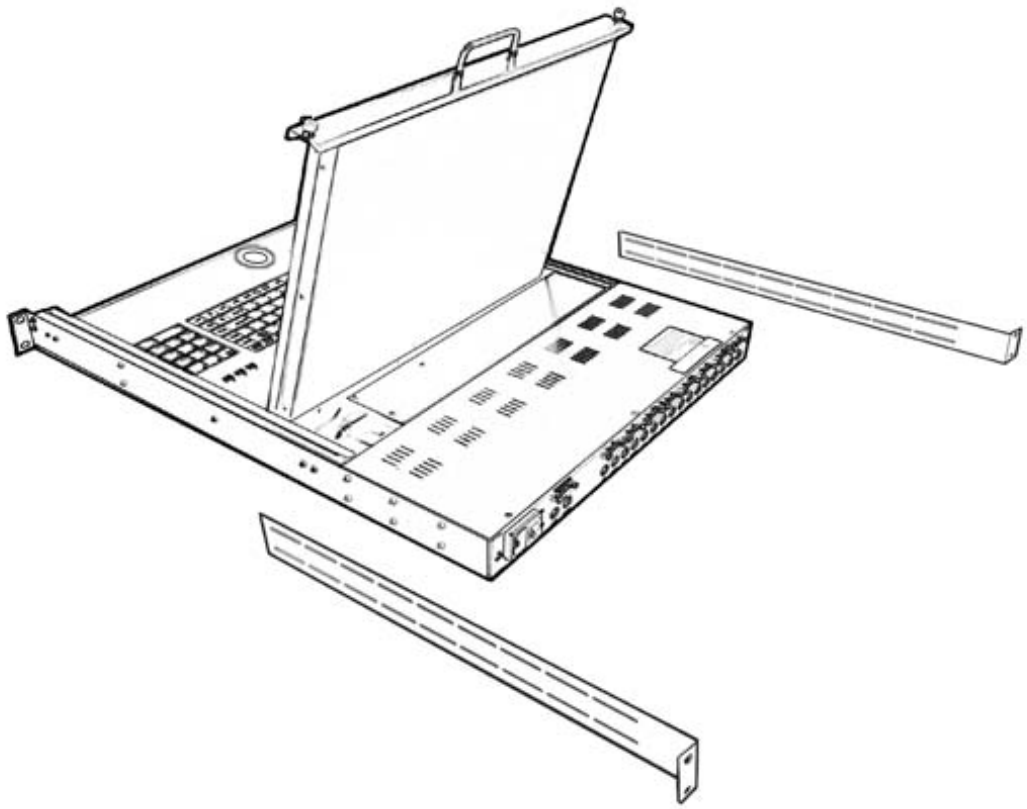
Model	**GFC 1508B/GFM 1501**
Extension Bracket:	× 2
Power cord:	× 1
D-Sub 15 VGA-PS/2 Cable （3 in 1）:	× 8 **(GFC 1508B)**
Hardware Package	× 1
User's Manual:	× 1

Rackmount Installation

1. Find the proper position and screw the rack-mount flanges to the GFC 1508B as shown in figure below.

2. With the GFC 1508B inside the rack, align flange holes with mounting holes at the rear of the rack and install mounting screws.

3. Mount the front flanges on the main body of the unit to the front of the rack.



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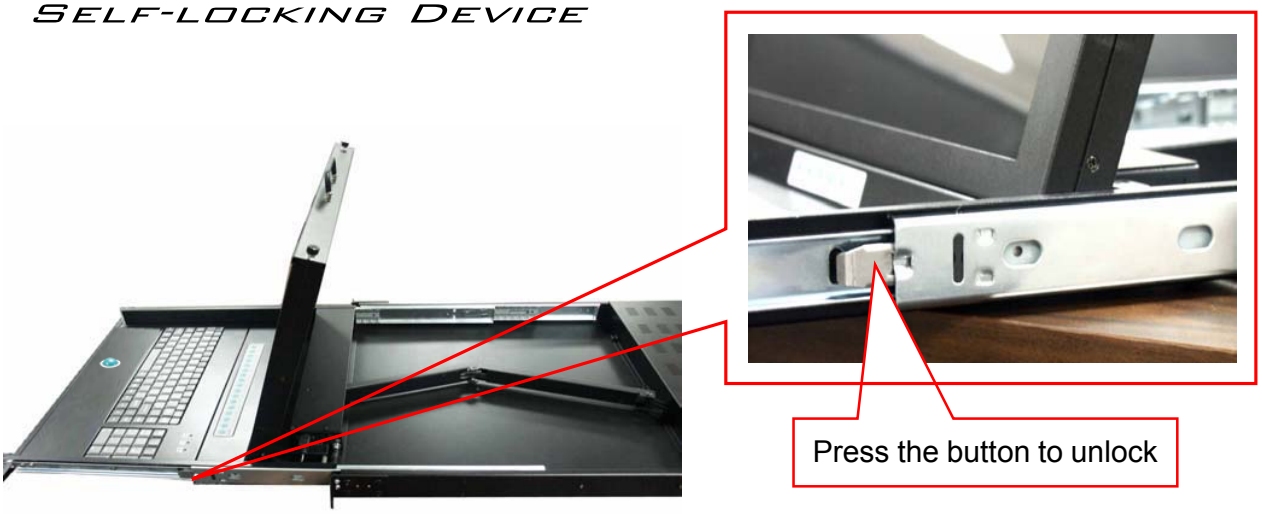
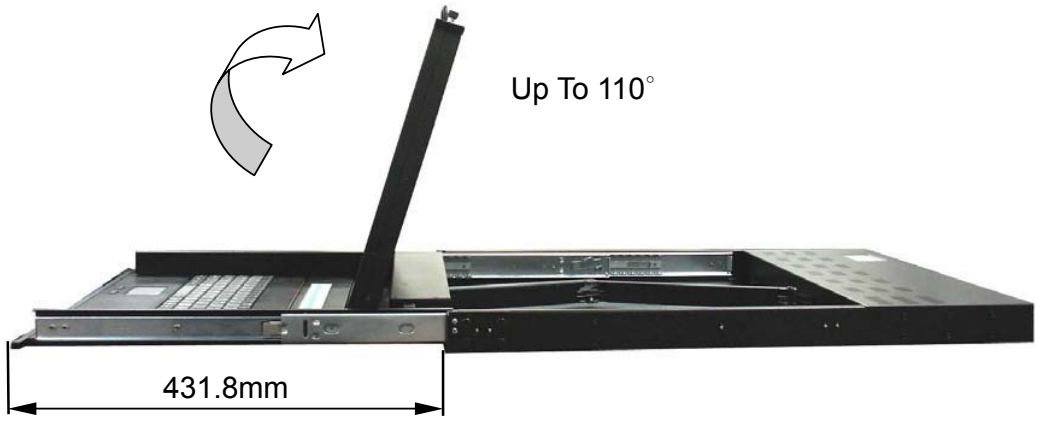
Product Detail

Self-locking Device

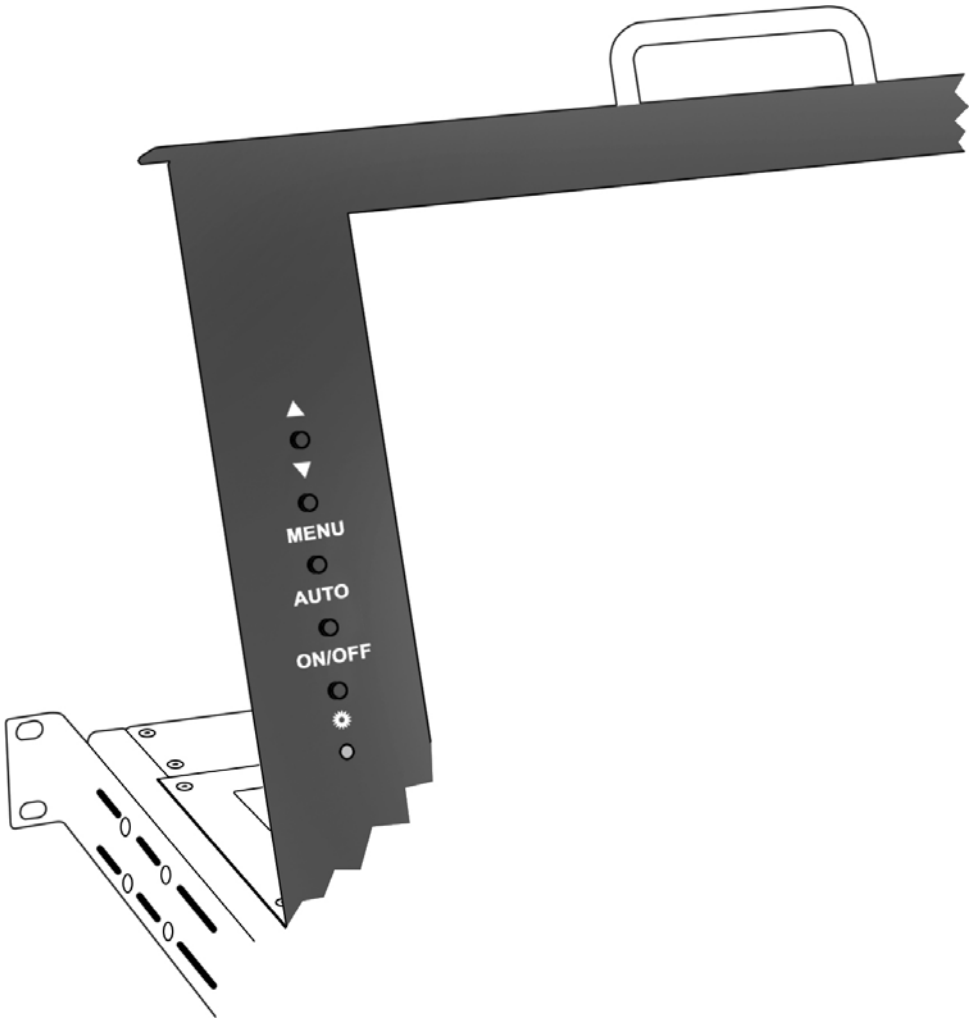


Maximum Extension Length



view of open & close

On Screen Display



1. Menu: Use this button to access the OSD (On Screen Display) menu and change video signal properties (sharpness, brightness, etc…).
2. Auto: Use this key to automatically adjust the display.
3. Selector Buttons: Use these buttons to adjust options in Manual Mode.
4. Power Button: Use this button to turn the monitor On or Off.
5. Power Light: Displays status of monitor (Green = On; Red = Off).

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Auto Adjustment

1. Press the MENU button to access the OSD (On Screen Display)/
2. Press the MENU button again to automatically adjust the monitor
3. Press the AUTO button to save your settings.

Brightness and Contrast

1. Press the MENU button to access the OSD.
2. Press the DOWN button to select the Brightness/Contrast option
3. Press the MENU button to access the Brightness/Contrast adjustment menu

Brightness

1. Use the DOWN button to reduce the brightness
2. Use the UP key to increase the brightness.

Contrast

1. Press the MENU button, then select CONTRAST
2. Use the DOWN button to reduce the screen contrast
3. Use the UP button to increase the screen contrast.

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Image Adjustment

1. Press the MENU button to access the OSD
2. Press the DOWN button and choose Image Adjust
3. Press MENU to access Image Adjust options

Horizontal Position

1. Press the MENU button to access the Horizontal adjustment
2. Use the Up and Down buttons to adjust position

Vertical Position

1. Press the MENU button and select the Vertical adjustment
2. Use the Up and Down buttons to adjust position

Picture Quality Adjustment

1. Press the MENU button and select Picture Quality
2. Use the Up and Down buttons to adjust position

Frequency Adjustment

1. Press the MENU button and select Frequency
2. Use the Up and Down buttons to adjust position

Color Adjustment

This procedure allows you to manually adjust the monitor's red, green and blue tones.

1. Press the MENU key to open the OSD
2. Press the DOWN key and select Color

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Red

1. Press the MENU key and go into the Color Adjust menu
2. Press the Up and Down keys to adjust red.

Green

1. Press the MENU key then access the Green adjustment
2. Press the Up and Down keys to adjust green.

Blue

1. Press the MENU key then access the Blue adjustment
2. Press the Up and Down keys to adjust Blue.

Other Color Adjustments

6500K Europe

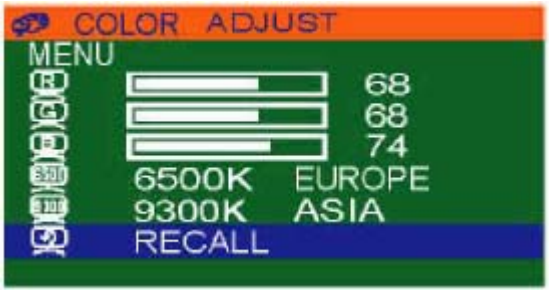
1. Press the MENU key then access the 6500K Europe adjustment
2. Press the Down key to move the picture closer to the blue tone.

9300K Asia

1. Press the MENU key then access the 9300 Asia adjustment
2. Press the Down key to move the picture closer to the red tone.

Recall

1. Press the MENU key then choose Recall
2. Press the Down key again and the picture reset to the default tone.



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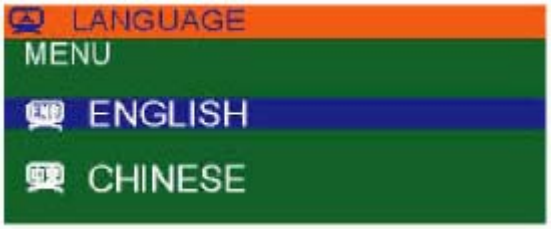
Language Selection

1. Press the MENU key to launch the OSD.
2. Press the DOWN key and select Language

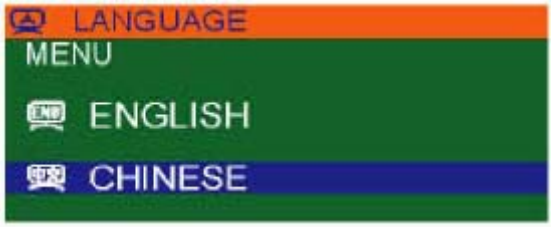
English

1. Press the MENU key to access the Language menu
2. Press the MENU key again, the menu will appear in English



Chinese

1. Press the DOWN key to select CHINESE mode
2. Press the MENU key again, the menu will appear in Chinese



Reset

Using the default setting:

1. Press the MENU key to launch the OSD
2. Press DOWN and select Reset
3. Press MENU again and the display will return to default settings.

OSD Adjustment

1. Press the MENU key to launch the OSD
2. Press DOWN and select OSD Adjust.

Horizontal Adjustment

1. Press the MENU key to launch the OSD
2. Use the UP and DOWN keys to adjust the OSD horizontal position

Vertical Adjustment

1. Press the MENU key to launch the OSD
2. Use the UP and DOWN keys to adjust the OSD horizontal position

Exit

To exit the OSD:

1. Using the DOWN or UP keys, select Exit
2. Press MENU to exit the OSD

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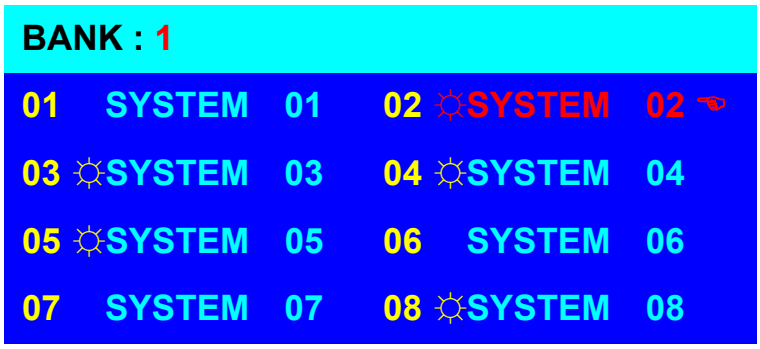
On Screen Display for KVM Operation

When you press the OSD menu button or you use the hot key, the following window appears on your monitor.



a. The 1ST line bar is the Bank no.

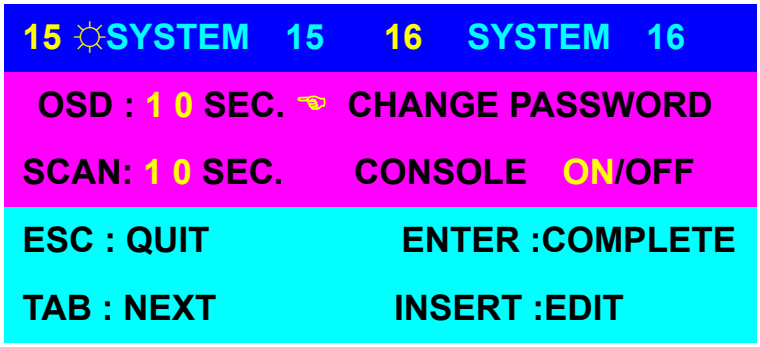
b. The 2nd block is the PC system name list. You will find the system number list from 01 to 08. You can define your PC name in a maximum of 8 characters. The factory default name for each port is “SYSTEM 01”, to “SYSTEM 08“. Also, the sun symbol “ ☼ “ near the PC name represents the PC system is powered on.

Use up arrow key “ ↑ “ or down arrow key “ ↓ “ to select port for destination PC name. After you have selected the PC port , press the ENTER Key to switch to the PC port.

Use “ PgUp “ key or “ PgDn” key for selecting previous or next Bank no. (or Box No.)

To press “ INS” key for editing PC name. After finishing edits, press “ Enter “ to save your changes.

Use " Tab " key to select items like Bank, OSD, SCAN, CHANGE PASSWORD, CONSOLE ON/OFF, etc…


15 SYSTEM 15 16 SYSTEM 16
OSD : 1 0 SEC. CHANGE PASSWORD
SCAN: 1 0 SEC. CONSOLE ON/OFF
ESC : QUIT ENTER :COMPLETE
TAB : NEXT INSERT :EDIT

a. " OSD: 10 SEC" means that the OSD windows display or PC system name displays for 10 sec. on your monitor. You can adjust from 05 sec to 99 sec. The factory default value is 10 sec..

b. " SCAN" indicates the scan interval from one PC port to next PC port. The default SCAN interval is 10 sec., the maximum is 99 sec.

c. " CHANGE PASSWORD" is for security.
The default password is 8 digits " 00000000 ".

There is an enter password window displayed when you select this item and then press Enter. The maximum password is eight digits. After you key in the password and press the Enter key, there is another window for confirming your password.

You need to retype the password again for verification.

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d. The " CONSOLE ON/OFF " function is used to manage users. If you select " CONSOLE ON ", it means that any user can use the console. If you select " CONSOLE OFF "(factory default OFF state), no user can gain access to the console unless the correct password is entered first. When you enter the password and authenticate with the GFC 1508B the CONSOLE ON/OFF function will be set to ON. After you finish using GFC 1508B, you must reset the CONSOLE ON/OFF function to the OFF state to enable password protection. Additionally, if you reset the GFC 1508B, default setting for the CONSOLE ON/OFF . function, is OFF.

e. When you finish naming PCs and exit the OSD setting mode, you will find the PC name you've selected appears at the up-left corner of monitor. You can use the "ESC" key to clear the PC name if it's no longer required.

f. To return the OSD to its factory default value, you can execute "SCROLL LOCK", "SCROLL LOCK", "R" keys in this order. The indicator LEDs on the front panel will be flashed during the this process.

When the OSD has been returned to its default settings, the indicator LEDs on the front panel will stop flashing

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System Requirements

Specifications:

Console side	One VGA HD-15 (VGA standard) connector
Computer side	15 pin female HD-15 VGA connector PS/2 connector for keyboard PS/2 connector for mouse

CABLE DIAGRAMS

PS/2 Cable:
Mini Din 6 pin Male to Male

VGA Cable:
HDB15 pin Male to Male

AT to PS/2 keyboard adapter: (Optional)
Din 5 pin Male to Mini Din 6 pin Female

PS2 to DB9 adapter (Optional)
Mini Din 6 pin Female to DB 9 pin Female

Switching Indication

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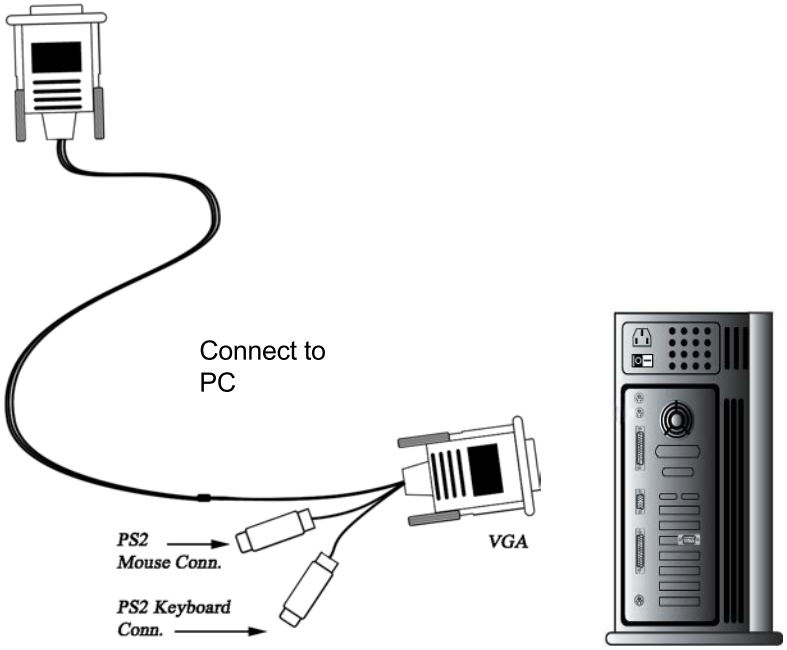
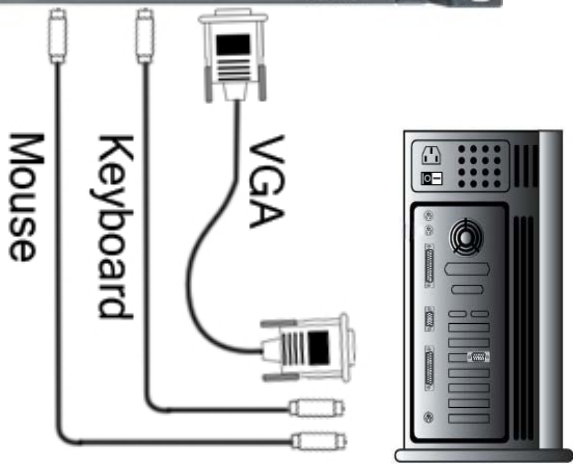
HARDWARE INSTALLATION

Step 1

Connect each PC to the GFC 1508B as illustrated below.



Connect each PC to the GFM 1501 as illustrated below.



Step 2

Double-check all of the connections. You can check the color of keyboard and mouse connector to make sure the keyboard and mouse cables go to the correct ports.

Step 3

Attach the power supply to the KVM unit and plug the other end into an electrical receptacle. The LED for Port 1 will illumiate,followed by a beep. Press Power to turn on the monitor.

NOTICE:

Remember to plug in the power adapter.

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USAGE

The power on state of GFC 1508B:
When you power on GFC 1508B it will prompt for a password, **the default password value is eight zeros – " 00000000 "**. Please key in eight zeros and enter the same value in retype field.

Note: You may want to consider keeping the default password (00000000) until you are completly familiar with the unit.

Please write down your password and keep it in a safe place.

LED Indication:

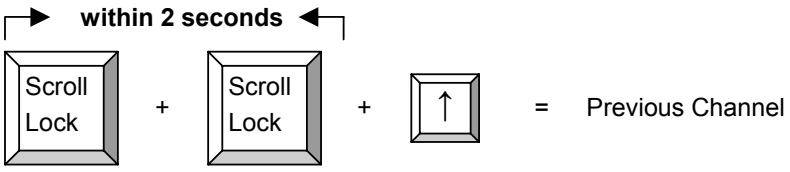
When you select one of eight PC ports and thePC is powered on, the selected port's LED lights. When you select one of eight PC ports and its corresponding PC is shut down or disconnected, the selected port's LED will flash.

Reset Button ((Bank Select) and (Port Select) **):**
Pressing both "select" button and "bank" button on the master bank simultaneously will reset GFC 1508B. This reset will return GFC 1508B to its default condition. Check the password and all of slave banks connected to the GFC 1508B.

If you add a new GFC 1508B as a slave bank, please use reset button of master GFC 1508B to automatically assign a new ID to it. You can view this new slave bank through the OSD menu. The PC ports of GFC 1508B are not reset by the Reset command.

Keyboard Hot Key Commands:
You can also command the GFC 1508B by switching ports through a hot key sequence. To send commands to the GFC 1508B **the "SCROLL LOCK" key must be pressed twice within 2 seconds.** When you hear a confirmation beep, the keyboard is in hot key mode. If you have not pressed any key in hot key mode within 2 seconds the keyboard will revert to Operation System control state.

Below are the different hot key commands:



Scroll Lock + Scroll Lock + ↓ = Next Channel

(Note: You also could press “up arrow key” or “down arrow key” to speed up selecting the destination port)

Scroll Lock + Scroll Lock + Page Up = Previous Bank

Scroll Lock + Scroll Lock + Page Down = Next Bank

To select PC port:

Scroll Lock + Scroll Lock + Bank No Port No

Port No.
1~8 (8 port)

Scroll Lock + Scroll Lock + B = Beep

(Note: The default Beeper function is ON and beeper control is only for available for Scan Mode)

Scroll Lock + Scroll Lock + S = Auto Scan

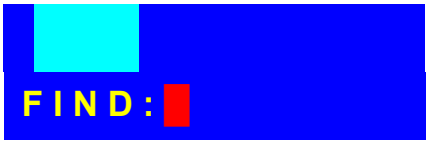
To get out of Auto Scan Mode, Press any key or SPACE bar.

Scroll Lock + Scroll Lock + R = OSD default value

(Note: Not including password)

Scroll Lock + Scroll Lock + F = Search the same PC name

(Note: Search PC name starting from 1st PC port)



Scroll Lock + Scroll Lock + Space bar = On Screen Display Menu

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Example :

a. To access a computer attached to Port 6 of the fifth Bank, use the hot key commands shown below:

Scroll lock + Scroll lock + "5" + "0" " 6"

b. To access a computer attached from Bank 3 to Bank 4, use the hot key commands shown below:

Scroll lock + Scroll lock + Page Down

Note:

Bank no. and Port no. selection must be made using the numeric keys on the keyboard. Numeric keys on the keypad are not available as a hot key command.

HOT PLUG

The GFC 1508B supports “Hot Plug“ function for easy addition or removal of PCs. The user can arrange or maintain PCs as follows:

c. A PC can be disconnected and reconnected to the same or different port of the KVM unit without having to power it off as long as it is not the Daisy-chain port or pass through port.
d. The pass through port PC (i.e. The pass through port means the console port is connected to PC directly) is powered on. Before you utilize the hot plug function, please switch this pass through port to next connected port, and then switch back to the pass through port.
e. You may unplug the mouse or the keyboard from the console port and plug it back in at any time.

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TROUBLESHOOTING

1. Ensure that all cables are well seated. Label all of cables with the number for each respective computer to avoid confusion.

2. The recommended VGA cable distance is 5 meters maximum to avoid ghosting and degradation. Normally, the cable length is based on driver capacity of your VGA card. If you need longer VGA cables, please contact CyberResearch, Inc. or visit our website.

3. The recommended PS2 cable distance is 5 meters maximum. Normally, the cable length is based on driver capacity of your motherboard's PS2 port. If you need longer PS2 cables, please contact CyberResearch, Inc. or visit our website.

4. The Power Jack polarity is center positive and the power adapter needs be DC12V, 1A or DC9V, 1A.

5. Don't press any keys on the keyboard while the selected computer is booting up. Otherwise, it might cause a keyboard error or the keyboard may not be detected on the PC side.

6. The computer boots up fine, but keyboard doesn't work
- Make sure the keyboard works when directly plugged into the computer.
- Try a different keyboard, but use only 101, 102 or 104-key keyboard.

7. The Mouse is not detected during PC boot up.
- Make sure the mouse works when directly plugged into the computer.
- Make sure the mouse is a true PS/2 mouse. A combo mouse will work just as long as it is set for PS/2 mode with the correct adapter. Try a different mouse.
- Avoid moving the mouse or pressing the mouse buttons when switching ports.
- Avoid switching ports during shutting down the PC process.
- When you switch one PC port to another PC port, scan time should be set to 5 sec. or more. Since it can take several seconds for the VGA connection to adapt from one computer to another, a scan time of under 5 seconds is not recommended.

8. The power button is off, but the GFC 1508B still works fine, or power adapter is unplugged from the outlet, but the GFC 1508B still operates normally.
GFC 1508B unit draws power from the power adapter and all connecte PC's PS2 ports. Some PC's PS2 port may support enough power for the GFC 1508B, but some PC's PS2 port (like laptop, notebook computer…etc.) is unable to supply enough power for the GFC 1508B. To ensure the system works properly and has constant, reliable power, please do not set power to "Off" or remove the power adapter from the outlet.

9. If you forget the CONSOLE ON/OFF " password " you typed, please contact CyberResearch, Inc.

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Product Service

Diagnosis and Debug

CyberResearch, Inc. maintains technical support lines staffed by experienced Applications Engineers and Technicians. There is no charge to call and we will return your call promptly if it is received while our lines are busy. Most problems encountered with data acquisition products can be solved over the phone. Signal connections and programming are the two most common sources of difficulty. CyberResearch support personnel can help you solve these problems, especially if you are prepared for the call.

To ensure your call's overall success and expediency:

1) Have the phone close to the PC so you can conveniently and quickly take action that the Applications Engineer might suggest.
2) Be prepared to open your PC, remove boards, report back-switch or jumper settings, and possibly change settings before reinstalling the modules.
3) Have a volt meter handy to take measurements of the signals you are trying to measure as well as the signals on the board, module, or power supply.
4) Isolate problem areas that are not working as you expected.
5) Have the source code to the program you are having trouble with available so that preceding and prerequisite modes can be referenced and discussed.
6) Have the manual at hand. Also have the product's utility disks and any other relevant disks nearby so programs and version numbers can be checked.

Preparation will facilitate the diagnosis procedure, save you time, and avoid repeated calls. Here are a few preliminary actions you can take before you call which may solve some of the more common problems:

1) Check the PC-bus power and any power supply signals.
2) Check the voltage level of the signal between SIGNAL HIGH and SIGNAL LOW, or SIGNAL+ and SIGNAL– . It CANNOT exceed the full scale range of the board.
3) Check the other boards in your PC or modules on the network for address and interrupt conflicts.
4) Refer to the example programs as a baseline for comparing code.

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Warranty Notice

CyberResearch, Inc. warrants that this equipment as furnished will be free from defects in material and workmanship for a period of one year from the confirmed date of purchase by the original buyer and that upon written notice of any such defect, CyberResearch, Inc. will, at its option, repair or replace the defective item under the terms of this warranty, subject to the provisions and specific exclusions listed herein.

This warranty shall not apply to equipment that has been previously repaired or altered outside our plant in any way which may, in the judgment of the manufacturer, affect its reliability. Nor will it apply if the equipment has been used in a manner exceeding or inconsistent with its specifications or if the serial number has been removed.

CyberResearch, Inc. does not assume any liability for consequential damages as a result from our products uses, and in any event our liability shall not exceed the original selling price of the equipment.

The equipment warranty shall constitute the sole and exclusive remedy of any Buyer of Seller equipment and the sole and exclusive liability of the Seller, its successors or assigns, in connection with equipment purchased and in lieu of all other warranties expressed implied or statutory, including, but not limited to, any implied warranty of merchant ability or fitness and all other obligations or liabilities of seller, its successors or assigns.

The equipment must be returned postage prepaid. Package it securely and insure it. You will be charged for parts and labor if the warranty period has expired.

Returns and RMAs

If a CyberResearch product has been diagnosed as being non-functional, is visibly damaged, or must be returned for any other reason, please call for an assigned RMA number. The RMA number is a key piece of information that lets us track and process returned merchandise with the fastest possible turnaround time.

PLEASE CALL FOR AN RMA NUMBER!

Packages returned without an RMA number will be refused!

In most cases, a returned package will be refused at the receiving dock if its contents are not known. The RMA number allows us to reference the history of returned products and determine if they are meeting your application's requirements. When you call customer service for your RMA number, you will be asked to provide information about the product you are returning, your address, and a contact person at your organization.

Please make sure that the RMA number is prominently displayed on the outside of the box.

• Thank You •

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